Algebra 1-2

Name ANSWER KEY

Per _____ Date _____

5.3 DAY 3 WORKSHEET - Slope Intercept Form (5B)

Why Did Gyro Go Into a Bakery?

For each exercise below, find the equation of the line that has the given slope and passes through the given point. Circle the letter next to the correct equation. Then write this letter in each box at the bottom of the page that contains the number of that exercise.

(1)	$m = 2$; (3, 2)	G	$y = 2x + 1$	R	1.	$y = 2x - 4$
(2)	$m = -3$; (1, 4)	O	2 $y = -3x + 7$	P		$y = -3x + 2$
(3)	$m = -5$; (−1, 3)	M	3 $y = -5x - 2$	D		$y = -5x + 6$
(4)	$m = 3$; (−4, −7)	V	$y = 3x + 1$	E	4	$y = 3x + 5$
(5)	$m = -1$; (5, −2)	U	5 $y = -x + 3$	C		$y = -x - 1$
(6)	$m = \frac{1}{2}$; (6, 1)	W	$y = \frac{1}{2}x - 5$	H	6	$y = \frac{1}{2}x - 2$
(7)	$m = -\frac{2}{3}$; (3, 4)	A	$y = -\frac{2}{3}x - 7$	I	7	$y = -\frac{2}{3}x + 6$
(8)	$m = \frac{4}{3}$; (−2, 0)	K	$y = \frac{4}{3}x + \frac{5}{2}$	F	8	$y = \frac{4}{3}x + \frac{8}{3}$
(9)	$m = -\frac{1}{4}$; (2, 1)	J	9 $y = -\frac{1}{4}x + \frac{3}{2}$	D		$y = -\frac{1}{4}x - \frac{3}{8}$
(10)	$m = 4$; $\left(-1, \frac{1}{2}\right)$	A	$y = 4x - \frac{2}{3}$	T	10	$y = 4x + \frac{9}{2}$
(11)	$m = -2$; (0, 0)	L	11 $y = -2x$	B		$y = -2x - 2$
(12)	$m = 0$; $\left(-5, \frac{3}{4}\right)$	S	12 $y = \frac{3}{4}$	N		$y = -5x$

9	5	12	10	8	2	1	10	6	4	12	3	4	11	11	2	8	7	10
J	U	S	T	F	O	R	T	H	E	S	M	E	L	L	O	F	I	T

OBJECTIVE 5–n: To find an equation of a line given the slope and one point on the line.

5.3 day 3 Worksheet "Gyro & The Bakery"

1.) $m=2;(3,2)$

$y=mx+b$

$2=2(3)+b$

$2=6+b$

$-6 \quad -6$

$-4=b$

$y=2x-4$

2.) $m=-3;(1,4)$

$y=mx+b$

$4=-3(1)+b$

$4=-3+b$

$+3 \quad +3$

$7=b$

$y=-3x+7$

3.) $m=-5;(-1,3)$

$y=mx+b$

$3=-5(-1)+b$

$3=5+b$

$-5 \quad -5$

$-2=b$

$y=-5x-2$

4.) $m=3;(-4,-7)$

$y=mx+b$

$-7=3(-4)+b$

$-7=-12+b$

$+12 \quad +12$

$5=b$

$y=3x+5$

5.) $m=-1;(5,-2)$

$y=mx+b$

$-2=-1(5)+b$

$-2=-5+b$

$+5 \quad +5$

$3=b$

$y=-1x+3$

$y=-x+3$

6.) $m=\frac{1}{2};(6,1)$

$y=mx+b$

$1=\frac{1}{2}(6)+b$

$1=3+b$

$-3 \quad -3$

$-2=b$

$y=\frac{1}{2}x-2$

5.3 day 3 WORKSNEET "GYRO + THE BAKERY"

7.) $m = \frac{-2}{3}$; $(3, 4)$

$y = mx + b$

$4 = -\frac{2}{3}(3) + b$

$4 = -2 + b$

$+2 \quad +2$

$6 = b$

$y = -\frac{2}{3}x + 6$

8.) $m = \frac{4}{3}$; $(-2, 0)$

$y = mx + b$

$0 = \frac{4}{3}(-2) + b$

$0 = -\frac{8}{3} + b$

$+\frac{8}{3} \quad +\frac{8}{3}$

$\frac{8}{3} = b$

$y = \frac{4}{3}x + \frac{8}{3}$

9.) $m = \frac{-1}{4}$; $(2, 1)$

$y = mx + b$

$1 = -\frac{1}{4}(2) + b$

$1 = -\frac{1}{2} + b$

$+\frac{1}{2} \quad +\frac{1}{2}$

$1\frac{1}{2} = b$

$\hookrightarrow = \frac{3}{2}$

$y = -\frac{1}{4}x + \frac{3}{2}$

10.) $m = 4$; $(-1, \frac{1}{2})$

$y = mx + b$

$\frac{1}{2} = 4(-1) + b$

$\frac{1}{2} = -4 + b$

$+4 \quad +4$

$4\frac{1}{2} = b$

$\alpha\ 9/2$

$y = 4x + \frac{9}{2}$

11.) $m = -2$; $(0, 0)$

$y = mx + b$

$0 = -2(0) + b$

$0 = 0 + b$

$0 = b$

$y = -2x + 0$

$y = -2x$

12.) $m = 0$; $(-5, \frac{3}{4})$

$y = mx + b$

$\frac{3}{4} = 0(-5) + b$

$\frac{3}{4} = 0 + b$

$\frac{3}{4} = b$

$y = 0x + \frac{3}{4}$

$y = \frac{3}{4}$